

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1499146

Luminaire Tested: MAE-G-4-120-1STD-LO-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-LO-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

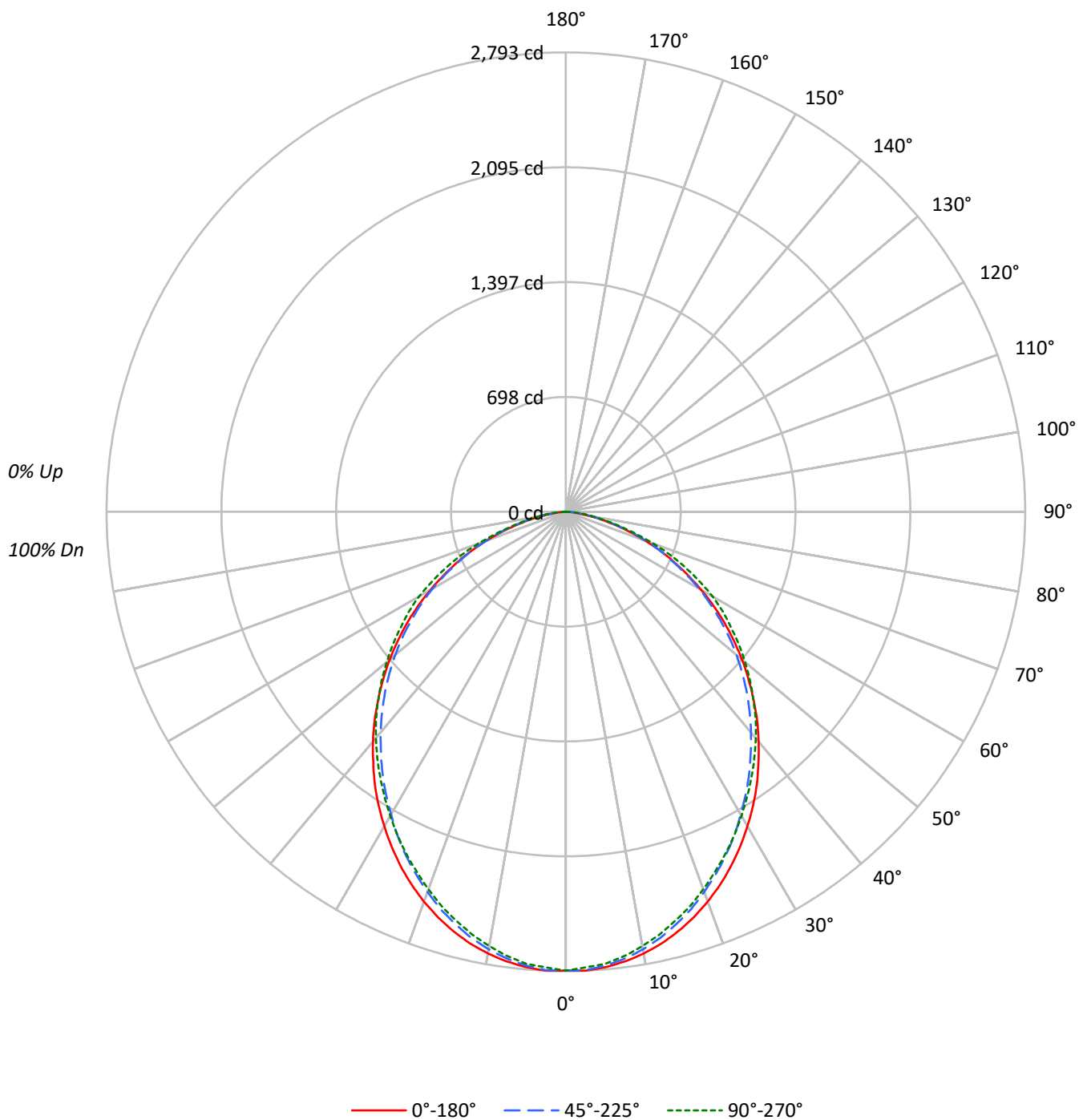
Lumens per Lamp: N/A
Luminaire Lumens: 6719.0 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3753	3753	3753
5°	3754	3741	3726
10°	3726	3691	3663
15°	3678	3615	3585
20°	3611	3521	3498
25°	3529	3419	3407
30°	3430	3303	3317
35°	3325	3193	3234
40°	3205	3076	3156
45°	3070	2960	3068
50°	2928	2835	2976
55°	2762	2687	2874
60°	2559	2516	2776
65°	2324	2287	2551
70°	2012	2038	2227
75°	1601	1701	1757
80°	1101	1267	1325
85°	611	936	1187

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.0	3.9
10°-20°	732.3	10.9
20°-30°	1067.0	15.9
30°-40°	1231.4	18.3
40°-50°	1222.0	18.2
50°-60°	1048.4	15.6
60°-70°	735.8	11.0
70°-80°	348.0	5.2
80°-90°	72.0	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2061.3	30.7
0°-40°	3292.7	49.0
0°-60°	5563.1	82.8
0°-90°	6719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6719.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2789	2789	2789	2789	2789	
5°	2780	2777	2770	2752	2758	264
15°	2640	2628	2595	2569	2574	744
25°	2377	2348	2303	2285	2295	1094
35°	2024	1986	1944	1950	1969	1265
45°	1614	1580	1556	1589	1612	1245
55°	1178	1147	1145	1193	1225	1051
65°	730	706	718	776	801	723
75°	308	298	327	341	338	333
85°	40	48	61	72	77	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2789.4	2789.4	2789.4	2789.4	2789.4
2.5°	2792.7	2794.7	2789.4	2769.6	2772.3
5°	2779.5	2776.9	2769.7	2752.5	2758.5
7.5°	2757.0	2753.7	2740.7	2720.9	2724.9
10°	2727.3	2720.6	2701.7	2677.4	2681.4
12.5°	2688.8	2680.4	2654.1	2627.4	2632.1
15°	2640.5	2628.1	2595.4	2568.8	2574.0
17.5°	2585.0	2571.8	2532.8	2504.1	2514.1
20°	2522.1	2503.7	2459.4	2433.4	2442.9
22.5°	2453.2	2429.7	2384.0	2360.2	2368.9
25°	2377.2	2348.4	2302.9	2284.9	2295.0
27.5°	2295.1	2263.7	2218.3	2203.0	2217.2
30°	2207.7	2174.3	2125.7	2119.7	2135.2
32.5°	2118.3	2083.2	2035.8	2037.1	2052.6
35°	2024.5	1985.9	1943.9	1949.9	1968.7
37.5°	1923.9	1887.4	1846.6	1865.3	1883.4
40°	1824.6	1786.7	1751.4	1776.0	1796.9
42.5°	1721.4	1685.5	1654.7	1683.4	1707.6
45°	1613.5	1580.4	1555.6	1588.8	1612.3
47.5°	1505.7	1472.5	1455.7	1492.2	1518.9
50°	1398.6	1367.4	1354.4	1395.5	1421.8
52.5°	1286.9	1256.9	1251.9	1294.4	1325.8
55°	1177.6	1147.0	1145.3	1193.0	1225.2
57.5°	1065.2	1041.9	1041.3	1093.6	1132.4
60°	950.8	927.4	934.9	996.3	1031.6
62.5°	839.6	816.3	824.9	892.8	916.0
65°	729.9	706.5	718.2	776.0	801.3
67.5°	622.1	599.9	620.2	672.5	688.4
70°	511.5	492.0	518.0	560.2	566.1
72.5°	408.4	391.5	422.6	448.9	448.0
75°	307.9	298.2	327.2	341.3	337.9
77.5°	220.0	214.9	239.6	246.6	243.8
80°	142.1	145.4	163.5	167.9	171.0
82.5°	82.6	89.1	102.8	117.8	121.0
85°	39.6	47.5	60.6	72.4	76.9
87.5°	13.8	19.1	25.0	27.6	26.9
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.37	16.95	15.73	17.26	17.58	15.73	17.31	16.10	17.63	17.94
	3H	16.80	18.23	17.18	18.55	18.91	17.32	18.74	17.70	19.07	19.43
	4H	17.22	18.56	17.62	18.91	19.29	17.77	19.11	18.17	19.46	19.83
	6H	17.44	18.67	17.85	19.04	19.43	18.01	19.25	18.42	19.61	20.01
	8H	17.47	18.65	17.89	19.04	19.44	18.08	19.26	18.50	19.65	20.05
	12H	17.47	18.60	17.90	18.98	19.41	18.12	19.25	18.55	19.63	20.06
4H	2H	15.90	17.24	16.30	17.59	17.96	16.20	17.54	16.60	17.88	18.26
	3H	17.52	18.63	17.93	19.03	19.43	17.99	19.10	18.40	19.50	19.90
	4H	18.02	19.02	18.45	19.44	19.88	18.54	19.55	18.98	19.96	20.40
	6H	18.31	19.19	18.77	19.63	20.09	18.88	19.75	19.33	20.19	20.65
	8H	18.36	19.18	18.83	19.62	20.09	18.97	19.79	19.44	20.23	20.70
	12H	18.39	19.11	18.87	19.59	20.06	19.05	19.78	19.53	20.26	20.73
8H	4H	18.24	19.05	18.70	19.50	19.96	18.71	19.53	19.17	19.97	20.44
	6H	18.59	19.26	19.09	19.75	20.23	19.12	19.79	19.61	20.28	20.75
	8H	18.67	19.28	19.19	19.78	20.27	19.26	19.86	19.77	20.37	20.86
	12H	18.72	19.25	19.23	19.75	20.31	19.38	19.92	19.89	20.41	20.97
12H	4H	18.25	18.97	18.73	19.45	19.92	18.71	19.44	19.19	19.92	20.39
	6H	18.60	19.21	19.12	19.72	20.20	19.12	19.72	19.63	20.23	20.72
	8H	18.73	19.26	19.23	19.75	20.31	19.30	19.83	19.81	20.32	20.89